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河北青龙河地区下元古界浊积岩金矿床 [点此下载全文](#)

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摘要:

笔者应用岩石学、构造学、矿床学、地球化学等手段和方法研究了该区金矿床的特点和形成条件, 结果表明成分以火山(碎屑)岩岩屑为主的浊积岩, 其含金量高达2.87g/t, 且金主要与硫化物共生, 浊积岩是金的矿源层。矿床型矿床。金矿的形成受浊流作用、火山作用和后生热液作用的控制。

关键词: [下元古界](#) [浊积岩](#) [金矿](#) [矿床](#) [成因](#)

GOLD DEPOSITS OF LOWER PROTEROZOIC TURBIDITES IN THE QINGLONG RIVER AREA, HEBEI [Down](#)

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Fund Project:

Abstract:

The Qinglong River gold ore district is located in the southeastern part of Qing-long county, mainly six gold occurrences (Miaozhengzi, Ciyugou, Huangzhangzi, Banbishang, Zhangzhangzi and Jinsha) orebodies occur in low-grade metamorphic rocks of the Zhangjiagou Formation of the Lower Proterozoic protoliths are volcano-turbidites and graywacke. The entire ore district is an overturned synclinal orebodies is strictly controlled by the strata, folds and the Qinglong River fault. Orebodies are mainly veinlike. The ore minerals are mainly pyrite, native gold and arsenopyrite with minor chalcopyrite. Minerals are mainly quartz, plagioclase and carbonate minerals. Host rocks are rich in SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub> enrichment of gold is closely related to trace elements such as Pb, As and Sb. Gold mineralization is pyrite and arsenopyrite. The host rocks in the Qinglong River gold district were formed by the active volcanic materials in the magmatic arc. Gold was brought up from depths by volcanic eruption. The hydrovolcanic exhalation and turbidities were deposited simultaneously to form stratified veins. There bearing rocks by late-stage metamorphic hydrothermal fluids and magmatic fluids resulted in the disseminated gold deposits and gold-bearing quartz vein gold deposits in the favorable structural gold deposits is related to both the syngensis of volcanic-turbidity currents and the reconstituted hydrothermal fluids.

Keywords: [Qinglong River](#) [Lower Proterozoic](#) [turbidites](#) [formation of the gold deposits](#)

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